

The image is a large, symmetrical, abstract graphic composed of the letters 'S' and 'Y' arranged in a grid-like pattern. The overall shape is a stylized 'Y' or a complex letter 'H'. The top part is a wide horizontal bar made of 'S's, with 'Y's forming a central vertical column. The sides are also made of 'S's, with 'Y's forming a central vertical column. The bottom part is a wide horizontal bar made of 'S's, with 'Y's forming a central vertical column. The entire graphic is composed of black letters on a white background.

(1)	39	HISTORY	; DETAILED
(1)	48	DECLARATIONS	
(1)	72	EXESFORCEX - FORCE EXIT SYSTEM SERVICE	

```
0000 1
0000 2      .TITLE  SYSFORCEX FORCE EXIT SYSTEM SERVICE
0000 3      .IDENT  'V04-000'
0000 4
0000 5
0000 6 *****
0000 7 *
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0000 25 *
0000 26 *
0000 27 *****
0000 28
0000 29 ++
0000 30 : FACILITY: EXECUTIVE, SYSTEM SERVICES
0000 31
0000 32 : ABSTRACT:
0000 33
0000 34 : ENVIRONMENT:
0000 35
0000 36 --
0000 37
0000 38 :
0000 39 : .PAGE      HISTORY      ; DETAILED
0000 40 :
0000 41 : AUTHOR:      R. HUSTVEDT      CREATION DATE: 1-OCT-76
0000 42 :
0000 43 : MODIFIED BY:
0000 44 :      : VERSION
0000 45 : 01      -
0000 46
```



```

0000 48      .SBTTL  DECLARATIONS
0000 49
0000 50 :
0000 51 : INCLUDE FILES:
0000 52 :
0000 53
0000 54      $ACBDEF      ; DEFINE AST CONTROL BLOCK
0000 55      $IPLDEF     ; DEFINE INTERRUPT PRIORITY LEVELS
0000 56      $PCBDEF     ; DEFINE PROCESS CONTROL BLOCK
0000 57      $PRDEF      ; DEFINE PROCESSOR REGISTERS
0000 58      $PRIDEF     ; DEFINE PRIORITY INCREMENT CLASSES
0000 59      $SSDEF      ; DEFINE STATUS CODES
0000 60
0000 61 :
0000 62 : EQUATED SYMBOLS:
0000 63 :
0000 64
00000000 0000 65 ASTEXIT=0      ; CHMK CODE FOR ASTEXIT
0000000C 0000 66 CODE=12      ; DISPLACEMENT TO CODE PARAMETER
0000 67 :
0000 68 : OWN STORAGE:
0000 69 :
0000 70

```

```
0000 72      .SBTTL  EXESFORCEX - FORCE EXIT SYSTEM SERVICE
0000 73
0000 74      :++
0000 75      : FUNCTIONAL DESCRIPTION:
0000 76      :
0000 77      : CALLING SEQUENCE:
0000 78      : CALLG  ARGLIST,EXESFORCEX
0000 79      :
0000 80      : INPUT PARAMETERS:
0000 81      : PIDADR(AP) - ADDRESS OF PID (WRITTEN)
0000 82      : PRCNAM(AP) - ADDRESS OF PROCESS LOGICAL NAME
0000 83      : CODE(AP) - COMPLETION CODE TO BE USED FOR EXIT CALL
0000 84      : R4 - PCB ADDRESS OF CURRENT PROCESS
0000 85      :
0000 86      : IMPLICIT INPUTS:
0000 87      : NONE
0000 88      :
0000 89      : OUTPUT PARAMETERS:
0000 90      : @PIDADR(AP) - PID OF PROCESS FOR WHICH EXIT WAS FORCED
0000 91      : R0 - COMPLETION STATUS
0000 92      :
0000 93      : IMPLICIT OUTPUTS:
0000 94      : NONE
0000 95      :
0000 96      : COMPLETION CODES:
0000 97      : SSS_NORMAL - SUCCESSFUL COMPLETION
0000 98      : SSS_INSMEM - INSUFFICIENT DYNAMIC MEMORY
0000 99      : SSS_NONEXPR - NON-EXISTENT PROCESS
0000 100     : SSS_NOPRIV - INSUFFICIENT PRIVILEGE TO CONTROL DETACHED PROCESS
0000 101     :
0000 102     : SIDE EFFECTS:
0000 103     : NONE
0000 104     :
0000 105     : --
0000 106
0000 107     EXESFORCEX::
0000 108     .WORD  ^M<R2,R3,R4,R5>      ; FORCE EXIT SYSTEM SERVICE
0002 109     BSBW  EXES$NAMPID        ; SAVE REGISTERS R2-R5
0005 110     SETIPL #0                    ; CONVERT NAME-PID PAIR
0008 111     BLBC  R0,20$                ; DROP IPL
000B 112     BBSS  #PCB$V_FORCPEN,PCB$L_STS(R4),10$; FORCE EXIT ALREADY PENDING
0010 113     PUSHL R1                    ; SAVE PID
0012 114     BSBW  EXES$ALLOCIRP      ; ALLOCATE AST CONTROL BLOCK
0015 115     BLBC  R0,20$                ; EXIT IF ERROR
0018 116     MOVB  #3,ACB$B_RMOD(R2)   ; SET ACCESS MODE
001C 117     MOVL  (SP)+,ACB$L_PID(R2) ; SET PID OF DESTINATION
0020 118     MOVAB  B^DOEXIT,ACB$L_AST(R2); AND ADDRESS OF AST ROUTINE
0025 119     MOVL  CODE(AP),ACB$L_ASTPRM(R2); SET CODE FOR EXIT CALL
002A 120     MOVL  R2,R5                ; AST CONTROL BLOCK ADDRESS FOR QAST
002D 121     MOVZBL #PRI$ RESAVL,R2    ; SET PRIORITY INCREMENT CLASS
0030 122     BSBW  SCH$QAST              ; QUEUE ACB FOR TARGET PROCESS
0033 123     MOVZWL #SS$_NORMAL,R0     ; SET NORMAL COMPLETION STATUS
0036 124     RET                      ; AND RETURN TO CALLER
0037 125
0037 126
```

23 24 A4 2B 50 E9 0008 111 BLBC R0,20\$
51 DD 0010 113 PUSHL R1
FFEB' 30 0012 114 BSBW EXES\$ALLOCIRP
1E 50 E9 0015 115 BLBC R0,20\$
0B A2 03 90 0018 116 MOVB #3,ACB\$B_RMOD(R2)
0C A2 8E D0 001C 117 MOVL (SP)+,ACB\$L_PID(R2)
10 A2 37'AF 9E 0020 118 MOVAB B^DOEXIT,ACB\$L_AST(R2)
14 A2 0C AC D0 0025 119 MOVL CODE(AP),ACB\$L_ASTPRM(R2)
55 52 D0 002A 120 MOVL R2,R5
52 02 9A 002D 121 MOVZBL #PRI\$ RESAVL,R2
FFCD' 30 0030 122 BSBW SCH\$QAST
50 01 3C 0033 123 10\$: MOVZWL #SS\$_NORMAL,R0
04 0036 124 20\$: RET

```

0037 128 :
0037 129 : PERFORM EXIT AS A RESULT OF USER MODE AST IN THE CONTEXT OF THE
0037 130 : TARGET PROCESS.
0037 131 :
0037 132 :
0037 133 DOEXIT:
0037 134 .WORD 0 ; NULL REGISTER SAVE MASK
0039 135 CHMK #ASTEXIT ; CLEAR AST ACTIVE FLAG
003B 136 $EXIT_S 4(AP) ; MAKE EXIT CALL
0045 137
0045 138
0045 139 .END

```


SYSFORCEX
Symbol table

FORCE EXIT SYSTEM SERVICE

F 10

16-SEP-1984 02:07:50 VAX/VMS Macro V04-00
5-SEP-1984 03:53:21 [SYS.SRC]SYSFORCEX.MAR;1

Page 5
(1)

ACBSB_RMOD	=	0000000B		
ACBSL_AST	=	00000010		
ACBSL_ASTPRM	=	00000014		
ACBSL_PID	=	0000000C		
ASTEXIT	=	00000000		
CODE	=	0000000C		
DOEXIT		00000037	R	01
EXESALLOCIRP	*****		X	01
EXESFORCEX		00000000	RG	01
EXESNAMPID	*****		X	01
PCBSL_STS	=	00000024		
PCBSV_FORCPEN	=	00000002		
PR\$ IPL	=	00000012		
PRIS RESAVL	=	00000002		
SCH\$QAST	*****		X	01
SS\$ NORMAL	=	00000001		
SYS\$EXIT	*****		GX	01

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes															
. ABS .	00000000 (	0.)	00 (	0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE			
. BLANK .	00000045 (	69.)	01 (	1.)	NOPIC	USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE			
\$ABSS	00000000 (	0.)	02 (	2.)	NOPIC	USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE			

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	31	00:00:00.06	00:00:01.17
Command processing	109	00:00:00.58	00:00:06.28
Pass 1	242	00:00:06.02	00:00:18.03
Symbol table sort	0	00:00:01.05	00:00:04.28
Pass 2	40	00:00:01.03	00:00:04.65
Symbol table output	4	00:00:00.03	00:00:00.04
Psect synopsis output	1	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	429	00:00:08.81	00:00:34.49

The working set limit was 1200 pages.
33261 bytes (65 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 667 non-local and 2 local symbols.
139 source lines were read in Pass 1, producing 12 object records in Pass 2.
15 pages of virtual memory were used to define 14 macros.

! Macro library statistics !

Macro library name

Macros defined

\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
- \$255\$DUA28:[SYS.LIB]STARLET.MLB;2
TOTALS (all libraries)

5
6
11

753 GETS were required to define 11 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:SYSFORCEX/OBJ=OBJ\$:SYSFORCEX MSRC\$:SYSFORCEX/UPDATE=(ENH\$:SYSFORCEX)+EXECMLS/LIB

0384 AH-BT13A-SE
VAX/VMS V4.0

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